THE EDGE LASER CUTTER INDUCTION
Assessment Record

The Edge

ACTIVITY 1 - KEY SAFETY TIPS FOR THE FABRICATION LAB

Draw a line to match the safety tip with its explanation

	EXPLANATION
 Wear the right safety gear	It's there for your protection
 Clean up as you go	It's easy to ask and you could prevent an injury
 Correctly use the right tool for the job	They protect your feet & help prevent slipping
 Always wear appropriate covered footwear	Most injuries come from misusing tools
 No kids under 12. Sorry!	There is hazardous equipment & substances used in the Fabrication Lab
 Ask questions if you have any doubts	Accidents happen in untidy spaces

NAME:

DATE:

The aim of The Edge Resource Inductions are to ensure that patrons are equipped with practical skills and knowledge to safely access the range of tools made available for public use in the Fabrication Lab. In each of these inductions, an Edge Facilitator will deliver training on the safe and appropriate use of equipment.

The following form serves as a record of your participation, and provides evidence to demonstrate your competent understanding and practical application of the training.

The assessment evidence collected in this Induction will be in three forms: Written Assessment, Peer Assessment (Verbal), and Workshop Facilitator Observations.

If you require any extra assistance to complete this induction please inform your facilitator at the beginning of the session.

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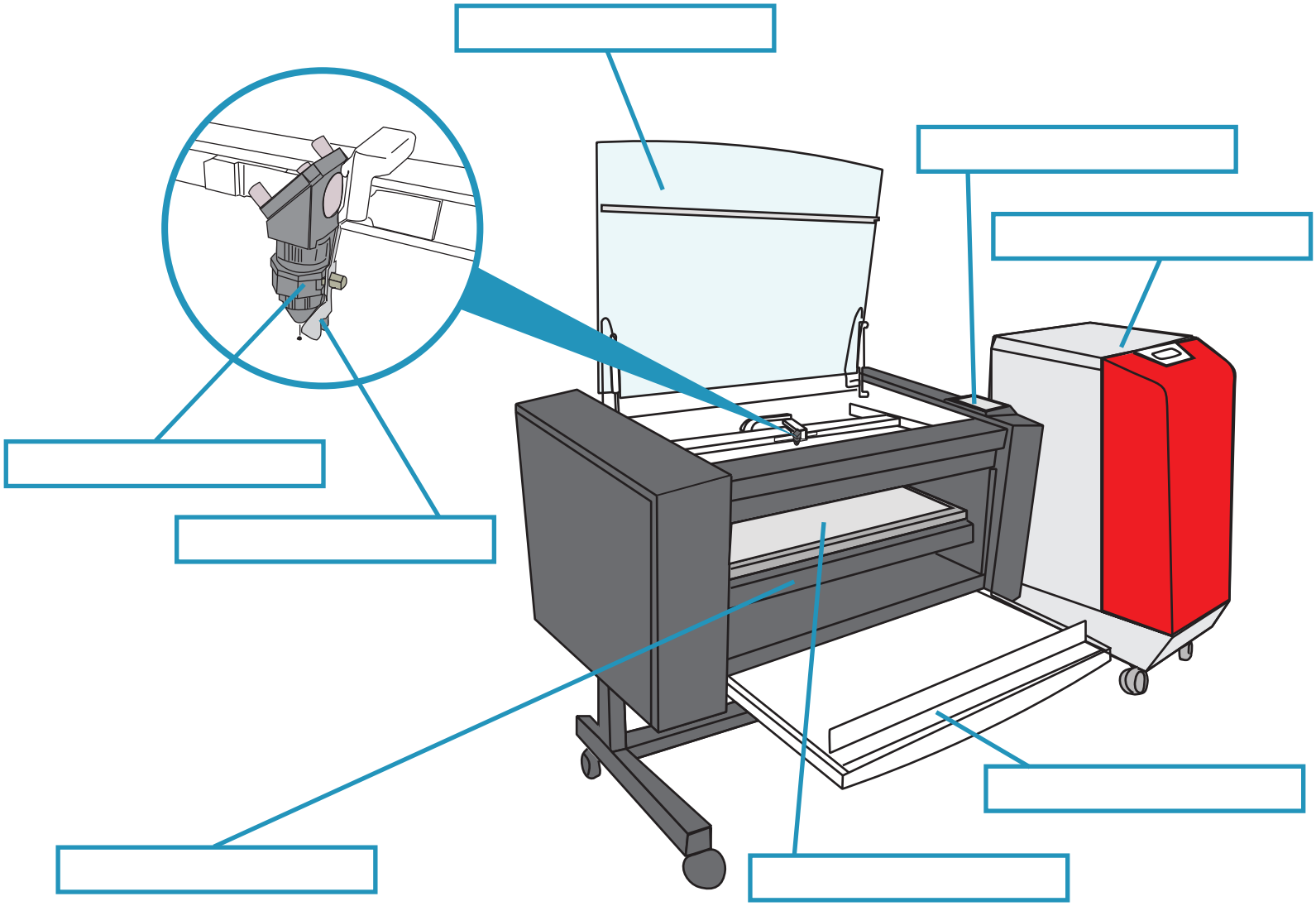
ACTIVITY 2 - IDENTIFY LASER CUTTER COMPONENTS

Using the list of components on the right, identify each part.

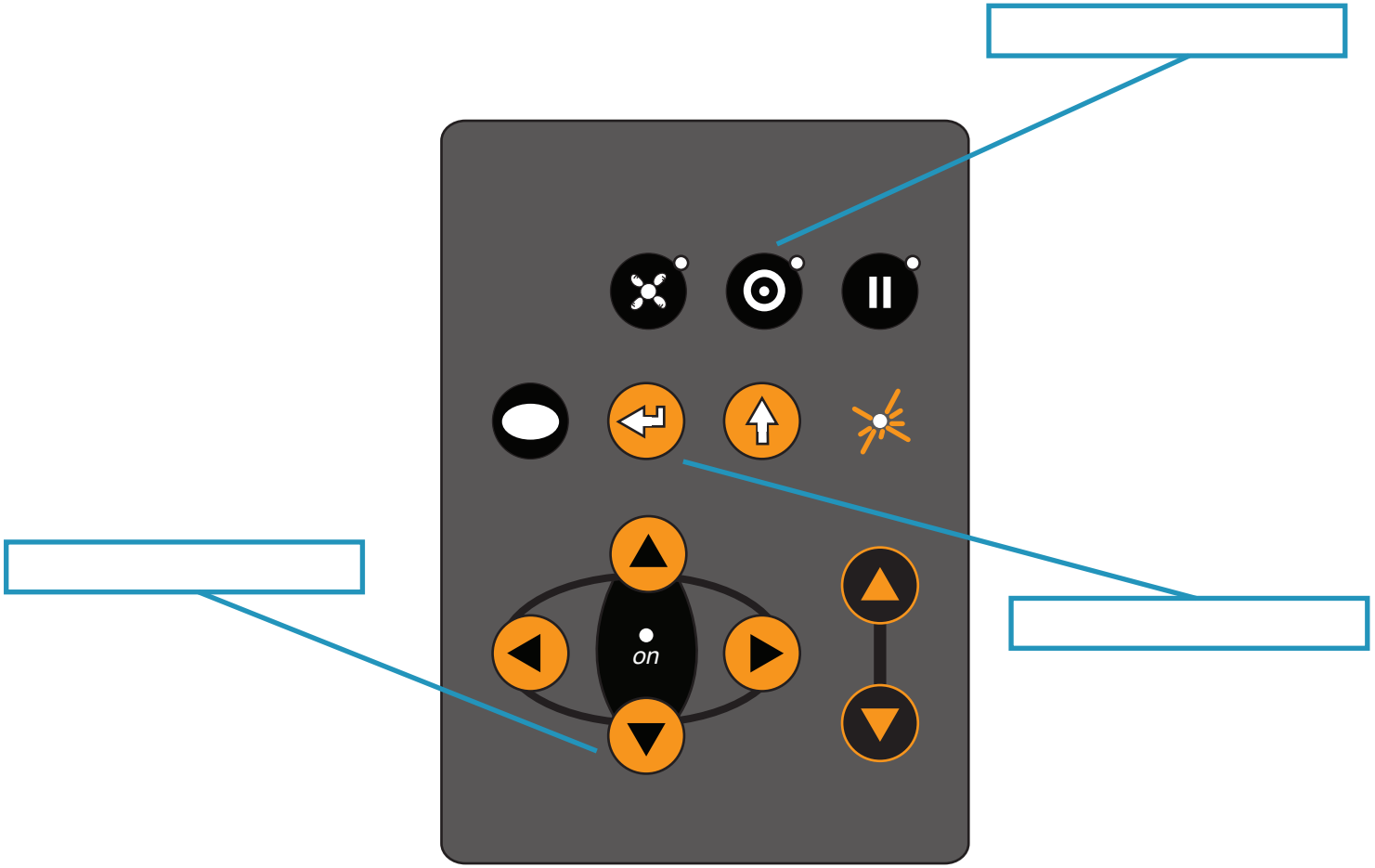


COMPONENTS

- Glass lid
- Bed
- Focusing Head
- Front Door
- Honeycomb
- HEPA Fume Extractor
- Control Panel
- Calibration Tool

ACTIVITY 2 - IDENTIFY CONTROL PANEL FUNCTIONS

Using the list of components on the right, identify each part.

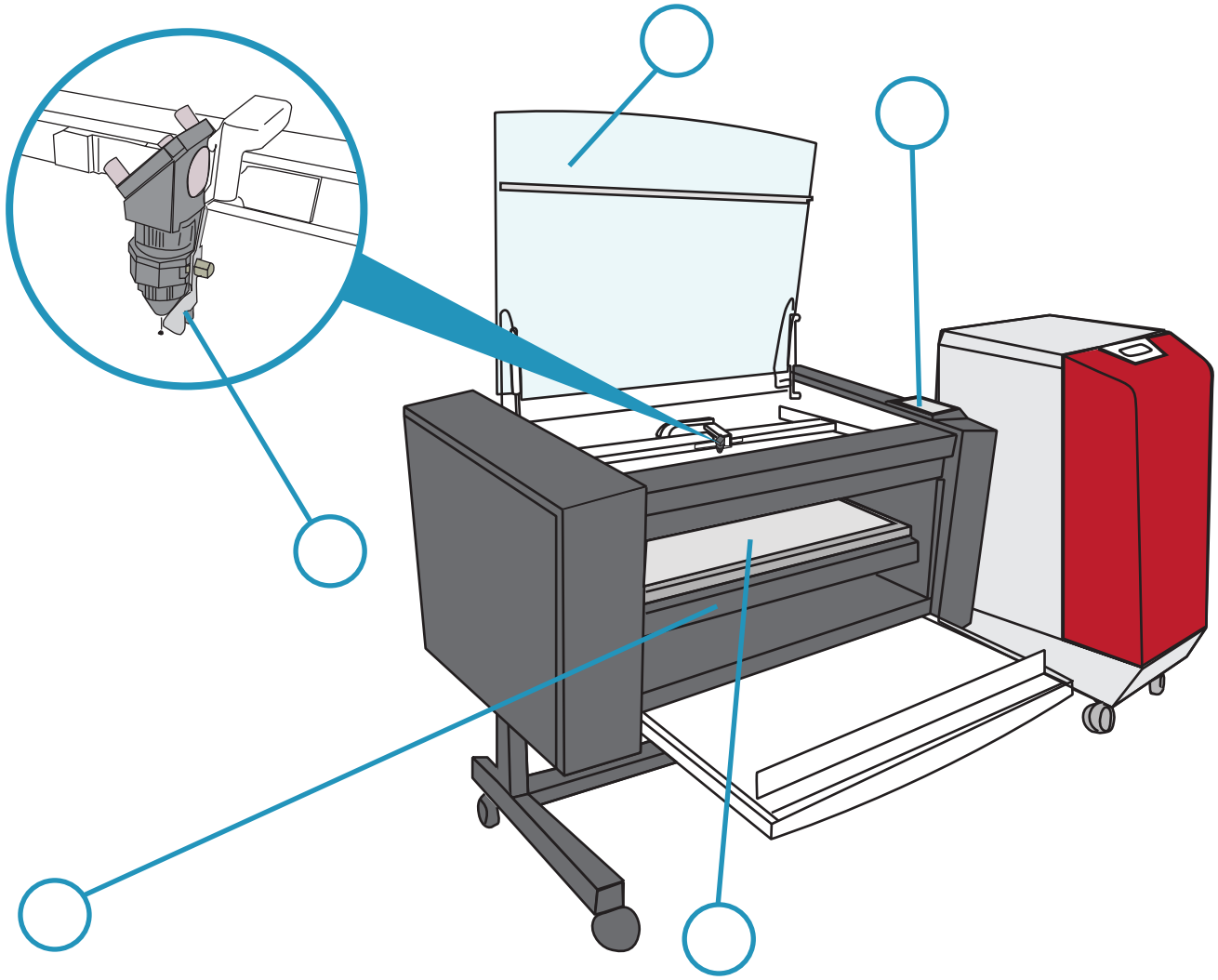


FUNCTIONS

- Move Laser/Focusing Head around in the x & y axis
- Start job
- Pause job & place in stand by mode
- Move bed up & down on the Z axis

ACTIVITY 3 - IDENTIFY LASER CUTTER SAFETY/OPERATIONAL TIPS

Using the safety tips on the right, identify



SAFETY/OPERATIONAL TIPS

1. Watch out for head crashes when focusing the laser
2. Needs to be cleaned regularly, seek assistance as it's sharp
3. Always start your job from the control panel so you can see if anything goes wrong
4. Watch out for head crashes when moving the bed
5. Lift lid to abort job

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LASER WORKFLOW

Number the steps

1. PREPARE DESIGN FOR CUTTING

- ( ) Apply line colours & thickness
- ( ) Name job and save file
- ( ) Import and layout design in Corel Draw

2. PREPARE THE LASER & MATERIAL

- ( ) Calibrate focus
- ( ) Check thickness of material
- ( ) Align starting point for cut

3. SET LASER PREFERENCES

- ( ) Select the material and thickness
- ( ) Ensure Auto focus is off
- ( ) Upload the job to the print manager
- ( ) Set the (DPI) and select the **Rayjet Start Button** option
- ( ) Set the preferences for each colour in the job:
  1. Power
  2. Speed and
  3. Number of Passes
  4. Air assist?

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LASER WORKFLOW

Number the steps

4. PREFLIGHT CHECK

- Check starting position of Laser
- Calibrate the focal distance
- Check the Laser cutter is clean and ready to cut
- Check there is a current Hot Work Permit
- Check Honeycomb is correctly seated on the bed
- Check all settings with the supervisor before starting the job

5. DURING THE CUT

- If your material catches fire **Lift the Lid to abort the job** and seek assistance from the Supervisor
- Avoid looking directly at the Laser. Prolonged staring at laser flash may cause eye strain
- Enter job details into the Machine Log: edgeqld.org.au/laser-cutter-job-log
- If the job has been aborted, cycle the power on the machine and restart all software (Correl, Rayjet Manager)

6. AFTER THE CUT

- Brush out debris and leave the area clean & tidy

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PEER ASSESSMENT

I confirm that the observations of my peer showed active participation in this inducation workshop and demonstrated a satisfactory understanding, including competent and safe use of the above tools.

Date	Peer Assessor	Peer Assessor Signature

FACILITATOR WORKSHOP OBSERVATION

I confirm that the observations made of the participant and active participantion in this induction workshop demonstrated a satisfactory understanding, including competent and safe use of the laser cutter.

Date	Edge Facilitator	Facilitator Signature

PARTICIPANT DECLARATION

I declare the assessment above was my own individual work.

Date	Participant Signature